CLAIMS:

- 1. A pharmaceutical product comprising any one of the following combinations of therapeutic agents, as a combined preparation for simultaneous, separate or sequential use in the treatment of conditions for which administration of one or more of the therapeutic agents is indicated:
 - (i) salmeterol, ciclesonide and tiotropium;
 - (ii) formoterol, budesonide and ipratropium;
 - (iii) formoterol, ciclesonide and tiotropium;
 - (iv) formoterol, budesonide and oxitropium;
 - (v) salbutamol, beclomethasone and ipratropium;
 - (vi) salbutamol, budesonide and tiotropium;
 - (vii) terbutaline, fluticasone and tiotropium;
 - (viii) terbutaline, fluticasone and ipratropium;
 - (ix) salbutamol, budesonide and ipratropium;
 - (x) salmeterol, fluticasone and ipratropium;
 - (xi) salmeterol, budesonide and ipratropium;
 - (xii) salmeterol, fluticasone and tiotropium; and
 - (xiii) formoterol, budesonide and tiotropium;

- 2. A pharmaceutical product according to claim 1, which comprises any one of the following combinations of therapeutic agents:
 - (i) salmeterol, ciclesonide and tiotropium bromide;
 - (ii) formoterol, budesonide and ipratropium;
 - (iii) formoterol, ciclesonide and tiotropium bromide;
 - (iv) formoterol, budesonide and oxitropium;
 - (v) salbutamol sulphate, beclomethasone and ipratropium;
 - (vi) salbutamol sulphate, budesonide and tiotropium bromide;
 - (vii) terbutaline sulphate, fluticasone and tiotropium bromide;
 - (viii) terbutaline sulphate, fluticasone and ipratropium bromide;

- (ix) salbutamol sulphate, budesonide and ipratropium bromide;
- (x) salmeterol, fluticasone propionate and ipratropium bromide;
- (xi) salmeterol, budesonide and ipratropium bromide;
- (xii) salmeterol, fluticasone propionate and tiotropium bromide; and
- (xiii) formoterol, budesonide and tiotropium bromide.
- 3. A pharmaceutical composition comprising any one of the following combinations of therapeutic agents:
 - (i) salmeterol, ciclesonide and tiotropium;
 - (ii) formoterol, budesonide and ipratropium;
 - (iii) formoterol, ciclesonide and tiotropium;
 - (iv) formoterol, budesonide and oxitropium;
 - (v) salbutamol, beclomethasone and ipratropium;
 - (vi) salbutamol, budesonide and tiotropium;
 - (vii) terbutaline, fluticasone and tiotropium;
 - (viii) terbutaline, fluticasone and ipratropium;
 - (ix) salbutamol, budesonide and ipratropium;
 - (x) salmeterol, fluticasone and ipratropium;
 - (xi) salmeterol, budesonide and ipratropium;
 - (xii) salmeterol, fluticasone and tiotropium; and
 - (xiii) formoterol, budesonide and tiotropium;

wherein the above therapeutic agents can optionally be present as a pharmaceutically acceptable salt or ester thereof, or in enantiomerically pure form or as a racemic mixture, together with a pharmaceutically acceptable carrier or excipient therefor.

- 4. A composition according to claim 3, which comprises any one of the following combinations of therapeutic agents:
 - (i) salmeterol, ciclesonide and tiotropium bromide;
 - (ii) formoterol, budesonide and ipratropium;
 - (iii) formoterol, ciclesonide and tiotropium bromide;
 - (iv) formoterol, budesonide and oxitropium;
 - (v) salbutamol sulphate, beclomethasone and ipratropium;

- (vi) salbutamol sulphate, budesonide and tiotropium bromide;
- (vii) terbutaline sulphate, fluticasone and tiotropium bromide;
- (viii) terbutaline sulphate, fluticasone and ipratropium bromide;
- (ix) salbutamol sulphate, budesonide and ipratropium bromide;
- (x) salmeterol, fluticasone propionate and ipratropium bromide;
- (xi) salmeterol, budesonide and ipratropium bromide;
- (xii) salmeterol, fluticasone propionate and tiotropium bromide; and
- (xiii) formoterol, budesonide and tiotropium bromide.
- 5. A composition according to claim 3 or 4, wherein the anti-cholinergic of the composition is present in an amount 0.001wt% to 0.5wt% based on the weight of the total composition.
- 6. A composition according to any of claims 3 to 5, wherein the β -2 agonist of the composition is present in an amount 0.001wt% to 0.5wt% based on the weight of the total composition.
- 7. A composition according to any of claims 3 to 6, wherein the steroid of the composition is present in an amount 0.001wt% to 0.5wt% based on the weight of the total composition.
- 8. A composition according to any of claims 3 to 7, in a form suitable for administration by inhalation.
- A composition according to claim 8, in the form of an aerosol.
- 10. A composition according to claim 9, which further comprises a propellant selected from the group consisting of 1,1,1,2-tetrafluoroethane, 1,1,1,2,3,3,3-heptafluoropropane, monofluorotrichloromethane and dichlorodifluoromethane, or any mixture of two or more thereof.
- 11. A composition according to claim 9 or 10, further comprising a co-solvent.

- 12. A composition according to claim 11, wherein the co-solvent is ethanol.
- 13. A composition according to any of claims 9 to 12, further comprising a surface-active agent.
- 14. A composition according to claim 13, wherein the surface-active agent is oleic acid, lecithin, or sorbitol trioleate.
- 15. A composition according to any of claims 9 to 14, which comprises any one of the following combinations of therapeutic agents:
 - (i) salmeterol, ciclesonide and tiotropium;
 - (ii) formoterol, budesonide and ipratropium;
 - (iii) formoterol, ciclesonide and tiotropium;
 - (iv) formoterol, budesonide and oxitropium;
 - (v) salbutamol, beclomethasone and ipratropium;
 - (vi) salbutamol, budesonide and tiotropium;
 - (vii) terbutaline, fluticasone and tiotropium;
 - (viii) salmeterol, fluticasone and tiotropium; and
 - (ix) formoterol, budesonide and tiotropium;

- 16. A composition according to claim 15, which comprises any one of the following combinations of therapeutic agents:
 - (i) salmeterol, ciclesonide and tiotropium bromide;
 - (ii) formoterol, budesonide and ipratropium;
 - (iii) formoterol, ciclesonide and tiotropium bromide;
 - (iv) formoterol, budesonide and oxitropium;
 - (v) salbutamol sulphate, beclomethasone and ipratropium;
 - (vi) salbutamol sulphate, budesonide and tiotropium bromide;
 - (vii) terbutaline sulphate, fluticasone and tiotropium bromide;

- (viii) salmeterol, fluticasone propionate and tiotropium bromide; and
- (ix) formoterol, budesonide and tiotropium bromide.
- 17. A metered dose inhaler which contains a composition as defined in any of claims 9 to 16.
- 18. A composition according to claim 8, in the form of an inhalation powder.
- 19. A composition according to claim 18, which comprises lactose as the excipient.
- 20. A composition according to claim 18 or 19, which comprises any one of the following combinations of therapeutic agents:
 - (i) salmeterol, ciclesonide and tiotropium;
 - (ii) formoterol, budesonide and ipratropium;
 - (iii) formoterol, ciclesonide and tiotropium;
 - (iv) salbutamol, beclomethasone and ipratropium;
 - (v) salbutamol, budesonide and tiotropium;
 - (vi) terbutaline, fluticasone and tiotropium;
 - (vii) salmeterol, fluticasone and tiotropium; and
 - (viii) formoterol, budesonide and tiotropium;

- 21. A composition according to claim 20, which comprises any one of the following combinations of therapeutic agents:
 - (i) salmeterol, ciclesonide and tiotropium bromide;
 - (ii) formoterol, budesonide and ipratropium;
 - (iii) formoterol, ciclesonide and tiotropium bromide;
 - (iv) salbutamol sulphate, beclomethasone and ipratropium;
 - (v) salbutamol sulphate, budesonide and tiotropium bromide;
 - (vi) terbutaline sulphate, fluticasone and tiotropium bromide.
 - (vii) salmeterol, fluticasone and tiotropium; and

- (viii) formoterol, budesonide and tiotropium.
- 22. A dry powder inhaler which contains a composition as defined in any of claims 18 to 21.
- 23. A composition according to claim 8, in the form of a propellant free inhalation solution or suspension.
- 24. A composition according to claim 23, which comprises any one of the following combinations of therapeutic agents:
 - (i) terbutaline, fluticasone and ipratropium;
 - (ii) salbutamol, budesonide and ipratropium;
 - (iii) salmeterol, fluticasone and ipratropium;
 - (iv) salmeterol, budesonide and ipratropium;
 - (v) salmeterol, fluticasone and tiotropium; and
 - (vi) formoterol, budesonide and tiotropium;

- 25. A composition according to claim 24, which comprises any one of the following combinations of therapeutic agents:
 - (i) terbutaline sulphate, fluticasone and ipratropium bromide;
 - (ii) salbutamol sulphate, budesonide and ipratropium bromide;
 - (iii) salmeterol, fluticasone propionate and ipratropium bromide;
 - (iv) salmeterol, budesonide and ipratropium bromide;
 - (v) salmeterol, fluticasone propionate and tiotropium bromide; and
 - (vi) formoterol, budesonide and tiotropium bromide.
- 26. A composition according to any of claims 23 to 25, in a form suitable for use with a nebuliser.
- 27. Use of any one of the following combinations in the manufacture of a medicament for

the prophylaxis or treatment of conditions for which administration of one or more of the therapeutic agents is indicated:

- (i) salmeterol, ciclesonide and tiotropium;
- (ii) formoterol, budesonide and ipratropium;
- (iii) formoterol, ciclesonide and tiotropium;
- (iv) formoterol, budesonide and oxitropium;
- (v) salbutamol, beclomethasone and ipratropium;
- (vi) salbutamol, budesonide and tiotropium;
- (vii) terbutaline, fluticasone and tiotropium;
- (viii) terbutaline, fluticasone and ipratropium;
- (ix) salbutamol, budesonide and ipratropium;
- (x) salmeterol, fluticasone and ipratropium;
- (xi) salmeterol, budesonide and ipratropium;
- (xii) salmeterol, fluticasone and tiotropium; and
- (xiii) formoterol, budesonide and tiotropium;

- 28. Use according to claim 27, which comprises any one of the following:
 - (i) salmeterol, ciclesonide and tiotropium bromide;
 - (ii) formoterol, budesonide and ipratropium;
 - (iii) formoterol, ciclesonide and tiotropium bromide;
 - (iv) formoterol, budesonide and oxitropium;
 - (v) salbutamol sulphate, beclomethasone and ipratropium;
 - (vi) salbutamol sulphate, budesonide and tiotropium bromide;
 - (vii) terbutaline sulphate, fluticasone and tiotropium bromide;
 - (viii) terbutaline sulphate, fluticasone and ipratropium bromide;
 - (ix) salbutamol sulphate, budesonide and ipratropium bromide;
 - (x) salmeterol, fluticasone propionate and ipratropium bromide;
 - (xi) salmeterol, budesonide and ipratropium bromide;
 - (xii) salmeterol, fluticasone propionate and tiotropium bromide; and
 - (xiii) formoterol, budesonide and tiotropium bromide.

· 🐒

- 29. Use according to claim 27 or 28, for the manufacture of a medicament for the treatment of inflammatory or respiratory tract diseases, by simultaneous or successive administration.
- 30. Use according to claim 29, for the manufacture of a medicament for the treatment of asthma and/or chronic obstructive pulmonary disease (COPD), by simultaneous or successive administration.
- 31. A method for the prophylaxis or treatment of inflammatory or respiratory tract diseases, said method comprising administering either sequentially or simultaneously, to a patient in need thereof, a therapeutically effective amount of any one of the following combinations:
 - (i) salmeterol, ciclesonide and tiotropium;
 - (ii) formoterol, budesonide and ipratropium;
 - (iii) formoterol, ciclesonide and tiotropium;
 - (iv) formoterol, budesonide and oxitropium;
 - (v) salbutamol, beclomethasone and ipratropium;
 - (vi) salbutamol, budesonide and tiotropium;
 - (vii) terbutaline, fluticasone and tiotropium;
 - (viii) terbutaline, fluticasone and ipratropium;
 - (ix) salbutamol, budesonide and ipratropium;
 - (x) salmeterol, fluticasone and ipratropium;
 - (xi) salmeterol, budesonide and ipratropium;
 - (xii) salmeterol, fluticasone and tiotropium; and
 - (xiii) formoterol, budesonide and tiotropium;

wherein the above therapeutic agents can optionally be present as a pharmaceutically acceptable salt or ester thereof, or in enantiomerically pure form or as a racemic mixture.

32. A method according to claim 31, which comprises administering either sequentially or simultaneously, to a patient in need thereof, a therapeutically effective amount of any one of

٠ý

the following combinations:

- (i) salmeterol, ciclesonide and tiotropium bromide;
- (ii) formoterol, budesonide and ipratropium;
- (iii) formoterol, ciclesonide and tiotropium bromide;
- (iv) formoterol, budesonide and oxitropium;
- (v) salbutamol sulphate, beclomethasone and ipratropium;
- (vi) salbutamol sulphate, budesonide and tiotropium bromide;
- (vii) terbutaline sulphate, fluticasone and tiotropium bromide;
- (viii) terbutaline sulphate, fluticasone and ipratropium bromide;
- (ix) salbutamol sulphate, budesonide and ipratropium bromide;
- (x) salmeterol, fluticasone propionate and ipratropium bromide;
- (xi) salmeterol, budesonide and ipratropium bromide;
- (xii) salmeterol, fluticasone propionate and tiotropium bromide; and
- (xiii) formoterol, budesonide and tiotropium bromide.
- 33. A method according to claim 31 or 32, for the treatment of asthma and / or chronic obstructive pulmonary disease (COPD), by simultaneous or successive administration.